Work Order January-28-13 12			*96460*									Page 1
Revision ID:	D1038-58B Fastener Rail, Black			Accept	3	*N900	040	100)* s	etup Star Stop	IV	S1* S2*
Start Date: 1/ Required Date: 2/ Reference:		t Qty: 50.00 'd Qty: 50.00	*50* *50*			Cust Item II Customer:	D:		·		10	. 1/
			Date: <u>/3-0(-29</u>				te:		R	tun Star Stop	1/1	R1* R2*
Sequence ID/ Work Center ID		ration ription		Set Up/ Run-Ho	urs	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision	Nbr								, ′		
D1038	Rev B											
*100 *100* DC Document Control	DOC	UMENT CONTRO Memo Create white	L labels and bag them	0.00	/	1			4	Jar 1	MUS)	3-2-26
110	BAN	D SAW		0.00	7.		`\		<i>C</i> 2	٥		· ·
110 Bandsaw Jeaspa Bandsaw		Memo	n D2023 to length 21.81" (0.00	70	13/02/08	5		50	_ Ø		
120	LI A A	S CNC VEDTICAL	MACHINING #1	0.00							ī	DA.
120 HAAS 1	наа	S CNC VERTICAL	MACHINING #1	0.00					50	4		& 89
HAAS CNC vertical m	nachine #1	Memo 1- Mill as pe 2-Deburr per	er Folio FA783 Rev: 14 A		Rev: S							13.02.05

												DQA:	D	ate:	
NCR:	Yes /	No				WORK ORDER NON-O	CON	NFORN	MANCE / UP	PDATE		•		•	
											_	QA Closed:	D	ate:	.
Work Orde	or:					DISPOSITION				AGAINST D	EF	PARTMENT	PROCESS		_
WOIR Olde	=r					Rework	7 I		Skid-tube	Crosstube	٦		Water Je	t	Engineering
Part N	No.				-	Scrap	1 1		Machining	Small Fab	┪	Pro	d. Eng. Coor	-	Quality
			•	,		Use-as-is	1		noforming	Finishing	┨		e/Packaging		Other
NCR I	No					Work Order Update			Large Fab	Composite			Supplie	r	
Root					Descri	ption of work order update	1	nitial	, Ac	ction		Sign &		1	
Cause	Da	te St	ер	Qty		or Non-conformance	Ch	ief Eng	Desc	cription		Date	Verificati	on	QC Inspector
Doc/Data															
Equip/Tooling														ŀ	
Operator															
Material														İ	
Setup														1	
Other															
Process															
Supplier															
Training															
Unapproved															<u> </u>
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Landi	ng Gear				_	General				- -					1
	Bend	ing				Bend		Grain				Ovalized		L	Pressure/Forced
	Cent	re Not Co	ncent	ric to O	/s	BOM/Route		Hardwa	re			Over/Under	tolerance		Temperature/Cure
	Cracl	(S				Broken/Damaged		Inspecti	on Incomplete			Part Incorre	ct	L	Weld
	Crus	ned/Crim _l	ped.			Burrs		Instruct	ions Incomplete,	/Unclear		Part Lost/Mi	ssing		Wrong Stock Pulled
	Cuffs					Contamination		Mainte	nance			Part Moved			
	Heat	Treat				Countersink		Mislabe	led			Positioned V	Vrong		_
	Inspe	ction Stri	ip in T	ube		Cut Too Short	Г	Misread	1	Γ		Power Loss/	Surge		Other

Offset

Out of Calibration
Out of Sequence

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

Work Orde				*	9646	n *							Page 3
Item ID: Revision ID: Item Name:	D1038-58B Fastener Rail,	Black		Accept	*	N9NN	040	100)* s	Setup	Start Stop		S1* S2*
Start Date: Required Date: Reference:	1/25/13	Start Qty: 50.00 Req'd Qty: 50.00	*50* *50*			Cust Item I	D:					ı u.	
Approvals:		ın:	Date:				nte:		F	Run	Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II 160 *160* QC Quality Control	D	Operation Description QC5- Inspect part comple Memo	eteness to step on W/O	Set U Run 0.00	Jp/ Hours 15 25 /3-2-//	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
170 Outsource4 Outsource process	- Anodize	Outsource process-Anodi Memo Issue P/O: _ Black Anodi	ize per QSI017 4.1.10.1 12 09 8 ize as per Dwg D1038	0.00					CX	1	3 <u>(0</u> 5	2/14	50)
¹⁸⁰ *12∩*		Receive & Inspect for Da	amage & Mat'l Certs	0.00		, *			/		1 2 h 1	<u></u>	(ε_0)

0.00

Memo

Packaging

Packaging

NCR:	Yes	1	No
INCIN.	162	1	140

DQA:

_Date: _

NCR: Y	es / No				WORK ORDER NON-C	ONFOR	MANCE / UP	DATE	QA Closed:	Date	:
Work Orde	y·				DISPOSITION			AGAINST DE	PARTMENT	PROCESS	
Part N			1,, 111,111		Rework Scrap	4 I	Skid-tube Machining	Crosstube Small Fab		Water Jet d. Eng. Coor.	Engineering Quality
NCR N	0				Use-as-is Work Order Update	Ther	moforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other
Root				Descri	ption of work order update	Initial		tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling							1		1		
Operator						ļ	ļ				
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Setup											
Other	_										
Process		İ							:		
Supplier											
Training		į									
Unapproved	1	l			F	AULT CATI	GORY		1	<u> </u>	
Landin	ng Gear				General	AOLI CAII					
Landin	Bending				Bend	Grain			Ovalized	Γ	Pressure/Forced
}	Centre No	ot Conce	ntric to (_{2/5}	BOM/Route	Hardw	are		Over/Under	tolerance	Temperature/Cure
ļ	Cracks	000000		,,	Broken/Damaged	-	tion Incomplete		Part Incorre	⊢	Weld
Ì	Crushed/	Crimped		 	Burrs		tions Incomplete/	'Unclear	Part Lost/M	<u> </u>	Wrong Stock Pulled
ţ	Cuffs				Contamination	 	enance		Part Moved		
Ì	Heat Treat Countersink					Mislab	eled		Positioned \	Vrong	
Inspection Strip in Tube Cut Too Short						Misrea	ıd		Power Loss/		Other
Ripples in Bend Drill Holes						Offset			_		
<u> </u>	Torque W		Extrusion	,	Drawing	Out of	Calibration				
Ţ	Turning S				Finish	Out of	Sequence				
Ī	Wave/Tw	vist in Tul	oe		Folio	Outsid	e Dimensions				

Work Orde January-28-13				*964	60*						Page 4
Item ID: Revision ID: Item Name:	D1038-58B Fastener Rail,	Black		Accept	*N90004	4010()*	Setup	Start Stop	*NS	S1* S2*
	1/25/13 2/15/13	Start Qty: 50.00 Req'd Qty: 50.00	*50* *50*		Cust Item ID: Customer:						.,
Approvals:		nn:	Date:	Tooling: SPC (Y/N):	Date:			Run	Start Stop		R1* R2*
Sequence ID/ Work Center II 190 *1 QC Quality Control	D	Operation Description QC3- Inspect Part Finish Memo		Set Up/ Run Hours 0.00 Sold	•	ool # Plan Code	Accept Qty 50	t Reje Qty		Reject Number	Insp. Stamp
200 ** Company of the second o		Batch:		0.00 0.00 wg D1038-58 using DT838	9		50	<u>'</u>		7	J3 /s
210 * 21 0* QC		QC5- Inspect part compl	eteness to step on W/O	0.00 Spo 26 C N 00.0	3		So	_			

Quality Control

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Γ	Centre Not Concentric to O/S	BOM/Route		Hardware		Over/Under tolerance		Temperature/Cure
	Cracks	Broken/Damaged		Inspection Incomplete	L	Part Incorrect		Weld
Γ	Crushed/Crimped.	Burrs		Instructions Incomplete/Unclear		Part Lost/Missing		Wrong Stock Pulled
	Cuffs	Contamination		Maintenance		Part Moved		
Γ	Heat Treat	Countersink		Mislabeled		Positioned Wrong		_
Γ	Inspection Strip in Tube	Cut Too Short		Misread		Power Loss/Surge	L	Other
Γ	Ripples in Bend	Drill Holes		Offset				
Γ	Torque Waves in Extrusion	Drawing		Out of Calibration				
Γ	Turning Sequence	Finish		Out of Sequence				
Γ	Wave/Twist in Tube	Folio		Outside Dimensions				

Wa	rk	Or	der	ID	96460	ì
47 U	I K	vi	uei	117	フロチひし	,

96460

Page 5

January-28-13	12:32:02 P	M		. /\ /								
Item ID: Revision ID:	D1038-58I	В		Accept	*N900	040	100)* 5	Setup St		*NS	S1*
Item Name:	Fastener Ra	il, Black							St	top	*NS	S2*
Start Date:	1/25/13	Start Qty: 50.00	*50	*	Cust Item 1	ID:						
Required Date Reference:	e: 2/15/13	Req'd Qty: 50.00	*50	*	Customer:							
Approvals:	Process F	Plan:	Date:	Tooling:	D	ate:	_]			*NF	R1*
	QC:		Date:	SPC (Y/N):	D	ate:			S	top	*NI	R2*
Sequence ID/ Work Center	ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty		eject umber	Insp. Stamp
220		n		0.00				_	in).	~ 1	6	140
22N		Packaging		0.00				Z O_	_/3/.	る/ど	3	06
Packaging Packaging		2-Roll Part i 3-Install red	cap at each end and se ite labels to cardboard nd Stock	dboard tube						,	9	
230 *230* QC		QC21- Final Inspection	- Work Order Release	0.00					[3]	3	20	*
Quality Control		MEMO							1	,		\mathcal{O}
										ار ہے	19	

V 13-03-19

NCR:	Yes	/	No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____Date: ____

NCK: Y	es / No				WORK ORDER NON-C	CONFOR	VIAITEL / OF L		QA Closed:	Date	
Work Orde	r.				DISPOSITION			AGAINST DE	PARTMENT	PROCESS	
Part N					Rework Scrap		Skid-tube Machining	Crosstube Small Fab	Pro	Water Jet d. Eng. Coor.	Engineering Quality
NCR N	•				Use-as-is Work Order Update	noforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other	
Root				Descri	ption of work order update	Initial	Act	ion	Sign &		
Cause	Date	Step	Qty	(or Non-conformance	Chief Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling										-	
Operator				•							
Material	_										
Setup						-					
Other	~								:		
Process	_			,							
Supplier	_				•						
Training										ļ	
Unapproved		<u> </u>	<u> </u>								
:						AULT CATE	GORY				
Landir	ng Gear			_	General	П а.			1	Г	٠
	Bending				Bend	Grain		-	Ovalized	-	Pressure/Forced
	Centre No	ot Conce	ntric to	o/s	BOM/Route	Hardwa		-	Over/Under	⊢	Temperature/Cure
	Cracks			<u></u>	Broken/Damaged	_	ion Incomplete		Part Incorre	<u> </u>	Weld
	Crushed/	Crimped		<u> </u>	Burrs		tions Incomplete/I	Unclear	Part Lost/M	issing	Wrong Stock Pulled
	Cuffs			<u> </u>	Contamination	 	enance	ļ	Part Moved		•
	Heat Trea			<u></u>	Countersink	Mislab		ļ	Positioned \	· ,-	¬
	Inspectio		Tube	<u> </u>	Cut Too Short	Misrea	d	<u>L</u>	Power Loss,	'Surge	Other
	Ripples in	n Bend			Drill Holes	Offset					
	Torque V	Vaves in I	Extrusio	n L	Drawing	 	Calibration				
	Turning S	equence		L	Finish	Out of	Sequence				
i	Mayo/Tu	ict in Tu	ha	[-	Folio	Outcide	a Dimensions				

Picklist Print

January-28-13 12:32:02 PM

Work Order ID:

96460

Parent Item:

D1038-58B

Parent Item Name:

Fastener Rail, Black

Start Date: 1/25/13

Required Date: 2/15/13

Start Qty: 50.00

Required Qty: 50.00

Comments:

IPP: E 03.05.02 Reformat; Added label KJ/RF

IPP Rev:F 06-08-16 Updated Packaging Procedures JLM IPP Rev:G 08-09-16 Added Folio # JLM Verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2023 Extrusion, Fastener Rail		Manufactured	No	VIII III		110	f	911.0000	1.903	95.15	PO	13/0	2/05
				Location		Loc Oty	Lo	c Code					
				MAT006 2190)7	911 911			9	6			

age 1

											DQA:	Date:	
NCR:	Yes /	No				WORK ORDER NON-	COI	NFORM	MANCE / UPDATE			_	•
											QA Closed:	Date:	
						DISPOSITION			AGAIN	ST DE	PARTMENT	/PROCESS	
Work Ord	er:					Rework	٦		Skid-tube Crosstul	~[Water Jet	Engineering
Part I	No					Scrap			Machining Small F	_	Pro	d. Eng. Coor.	Quality
raiti	NO					Use-as-is	1	•	noforming Finishi		4	re/Packaging	Other
NCR I	No.					Work Order Update	1	1	Large Fab Composi		1100,010	Supplier	1 1
									,	L			
Root					Descri	ption of work order update		Initial	Action		Sign &		
Cause		Date	Step	Qty		or Non-conformance	Cł	nief Eng	Description		Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling	Ш												
Operator	Щ	,											
Material	Ш		<u> </u>										
Setup													
Other	Ш												
Process													
Supplier	Ш												
Training	Ш												1
Unapproved	<u> </u>		İ	L						_			
							AUI	LT CATE	GORY				
Landi	ing Ge					General		Jan-:-	•		Ovalized		Pressure/Forced
	-	ending			o /s	Bend	\vdash	Grain		\vdash	4	talaranaa	⊣
	-		ot Concer	ntric to	0/5	BOM/Route	-	Hardwa		-	Over/Under	⊢	Temperature/Cure Weld
	\vdash	racks	.		<u> </u>	Broken/Damaged	\vdash	-	ion Incomplete	-	Part Incorre Part Lost/M	<u> </u>	Wrong Stock Pulled
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	-	uffs			}_	Countarink	\vdash	-{		\vdash	Positioned \		
1	j ¦H⊦	eat Trea	Iτ			Countersink	1	Mislabe	eleu		Trositioned	MIOHE	_

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Other

Power Loss/Surge

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

Folio

DART AEROSPACE LTD	Work Order:	96460
Description: 1/4" Turn Fastener	Part Number:	D1038-58B
Inspection Dwg: D1038-58B Rev: B		Page 1 of 1

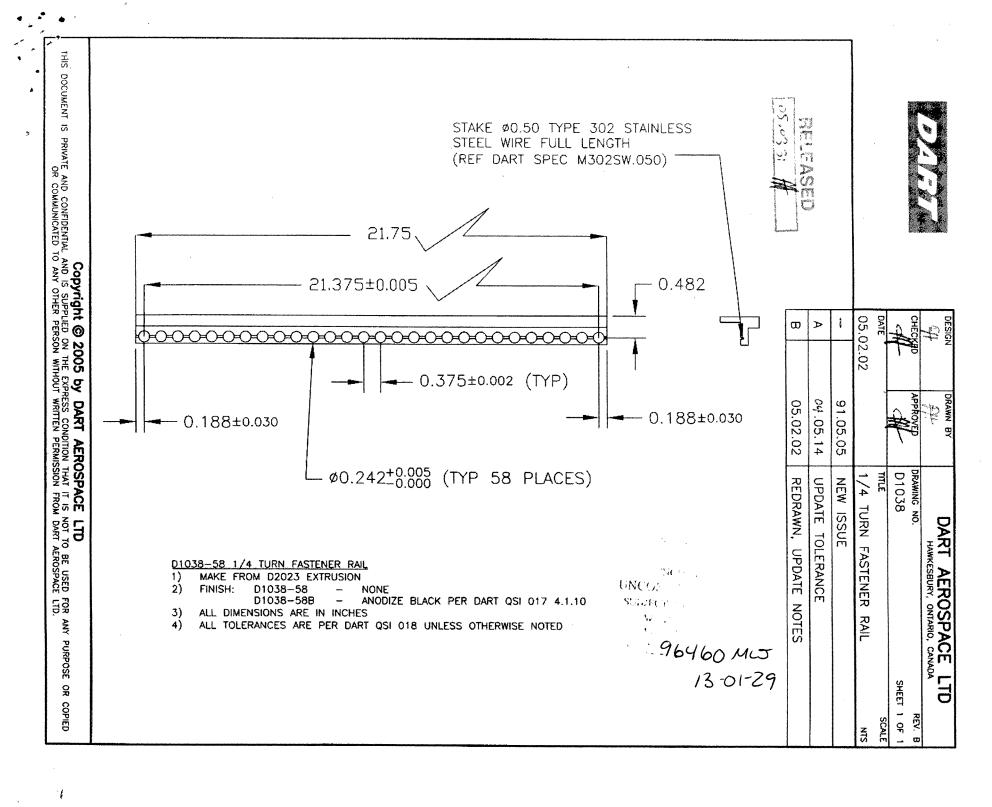
FIRST ARTICLE INSPECTION CHECKLIST

X	First Article		Prototype
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Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
21.750	+/-0.030	71.75	~		Tage	3607
0.375	+/-0.002	.375	_		Veru 0-6"	3605
0.1875	+/-0.030	.189	v		1	1
Ø0.242	+0.005/-0.000	. 747	·			
0.4825	+/-0.010	. 484	<u> </u>	· · · · · · · · · · · · · · · · · · ·	<i>k</i>	<u> </u>
						·

Measured by: 36	Audited by:	b. A. OAS	Prototype Approval:	N/A
Date: 13.07.05	Date:	13/02/04 3-89	Date:	N/A

Rev	Date	Change	Revised by	Approved
1101	05.02.16	New Issue	KJ/JLM ,	-1
			KJ/JLM A	
В	06.03.08	21.750 was 12.750, Dwg rev. changed	TROJULINI C, W	_





Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO19098

Purchase Order Date 2/14/13 PO Print Date 2/19/13

Page Number 1 of 1

Order From:

VC-ATG001

A.T.G. INDUSTRIES INC. 731 INDUSTRIELLE ROAD ROCKLAND, ON K4K 1T2

CANADA

Contact Name Vendor Phone

613-446-4544

Vendor Fax

613-446-4556

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30 CAD

Destination-Collect

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN HAWKESBURY, ON K6A 1K7

CANADA

REVISED

Line Nbr Reference

Revision ID

Description/ Mfg ID

Reg Date/

Req Qty/ Taxable Unit of Measure

Ship Method

Unit Price

Extended Price

Vendor Part Number

96460

D1038-58B FASTENER **RAIL**

2/20/13

50.00 FedEx PI collect

\$2.7500

\$137.50

Yes

Special Inst:

ANODIZE PER MIL-A-8625F TYPE I/IB/IC/II OR IIB

CLASS 2

PO Total:

\$137.50

CERTIFICATE OF CONFORMITY REQ'D UPON DELIVERY



No substitution or deviation without consent.

Certificate of Conformity or Material Certification required YES

Change Nbr:

2

Change Date:

2/19/13



A.T.G. Industries Inc. 731, rue Industrielle Rd. PLATING DEPARTMENT Rockland, On K4K 1T2 Canada

Ph: (613) 446-4544 Fax: (613) 446-4556



Pack List

Number: 62219

Date: 19-Feb-13

To

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7 Canada

Ship To

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON KEA 1K Canada

Ph: 613-632-5200

Fax: 613-632-1185

Ph: 613-632-5200

Fax: 613-632-1185

Terms Ship Via Quantity Description Part: D1038-58B Rev: RAIL ea BLACK ANODIZE MIL-A-8625 TYPE 2 CLASS 2 Job: 20130098 PO: PO19098 Line: Certificate of Conformance A.T.G. Industries certifies that all items in this shipment are in conformance with all requirements, specifications and drawings referenced in the purchase order. ISO 9001: 2008 REGISTERED ATG SALES-2010 TERMS APPLY CERTIFIED SIGNATURE: RECEIVER SIGNATURE: _